

---

## SOFTWARE PROJECT MANAGEMENT (SESP-447)

### I.Course Details

<b>Credit Hours</b>	3 (3+0)
<b>Pre-requisites</b>	Software Engineering
<b>Course Leader</b>	Dr. Sumaira Nazir
<b>Recommended Textbook(s)</b>	Information technology project management, Kathy Schwalbe 9 <sup>th</sup> Edition, Cengage, 2019
<b>Recommended Reference (Books/Websites/Articles)</b>	Mastering software project management: Best practices, tools and techniques Chemuturi, M. & Cagley, T. M. (2010)

### II. Course Learning Outcomes (CLO)

CLOs	Description	Domain	Taxonomy Level	PLOs	Assessment Artifact
CLO-1	<b>Explain</b> fundamental concepts of project management, PMI process groups	Cognitive	2	1	A1, Q1, Midterm
CLO-2	<b>Analyze</b> various software project management process areas and knowledge areas	Cognitive	4	3	A2, Q2 Midterm, Final Term
CLO-3	<b>Apply</b> various software project management processes and knowledge area on small scale project	Cognitive	4	4	A3, Q3, Presentation /Project, Final Term

### III. Course Assessment

Evaluation Methods	Weight (%)
Quizzes	10
Assignments	10
Presentation/Project	5
Midterm	25
Final Term	50
<b>Total</b>	<b>100</b>

### IV. Grading Policy

For students admitted in Fall 2021 and onwards

Grade	A+	A	B+	B	C+	C	D+	D	F
%age	>=90	80-89	75-79	70-74	65-69	60-64	55-59	50-54	<50

---

<b>GPA</b>	4.00	4.00	3.50-3.99	3.00-3.49	2.50-2.99	2.00-2.49	1.50-1.99	1.00-1.49	0.00
------------	------	------	-----------	-----------	-----------	-----------	-----------	-----------	------

For students admitted before Fall 2021

<b>Grade</b>	<b>A1</b>	<b>A2</b>	<b>A3</b>	<b>B1</b>	<b>B2</b>	<b>B3</b>	<b>C1</b>	<b>C2</b>	<b>D</b>	<b>F</b>
<b>%age</b>	>=90	80-89	77-79	74-76	70-73	67-69	64-66	60-63	50-59	<50
<b>GPA</b>	4.00	4.00	3.66	3.33	3.00	2.66	2.33	2.00	1.50	0.00

## V. Course Contents

Introduction to Project Management. The Project Management Process Groups. Project Integration Management. Project Scope Management. Project Time Management. Project Cost Management. Project Quality Management. Project Human Resource Management. Project Communications Management. Project Risk Management. Project Procurement Management. Controlling and tracking

## VI. Weekly Breakdown

Week No.	CLO	Topics	Reference
1	CLO-1	Course introduction, software crises, project failure, what is a project, what is project management, Program and Project Portfolio Management, Role of project manager, project management ethics and certifications, project management profession	Chapter 1 [Textbook]
2		Software project acquisition from external client (RFP, proposal, negotiation, contract acceptance) Software project acquisition from internal client (feasibility study, preparing and finalizing proposal)	Chapter 3 [Ref. Book]
3		PMI Framework, Project management process groups, Mapping the Process Groups to the Knowledge Areas, Case study (JWD consultancy intranet site project) of project management process groups	Chapter 3 [Textbook]
4		Software project initiation, project management office level activities, software project manager level activities. Common pitfalls in project initiation	Chapter 4 [Ref. Book]
5	CLO-2	What is Project Integration Management, Strategic Planning and Project Selection, Methods for Selecting Projects, Developing a Project Charter, Developing a Project Management Plan, Monitoring and Controlling Project Work	Chapter 4 [Textbook] chapter 5 [Ref. Book]
6		Project Scope Management, Planning Scope Management, collecting requirements, Defining Scope Creating the Work Breakdown Structure, Validating Scope Controlling Scope	Chapter 5 [Textbook] Chapter 5 [Ref. Book]

7		The Importance of Project Schedule, Planning Schedule Management, Defining Activities, Sequencing Activities, Estimating Activity Resources and Activity Durations (PERT,CPM), Developing the Schedule, Controlling the Schedule,	Chapter 6 [ Textbook] Chapter 5 and 9 [Ref. Book]
8		Project Cost Management, Basic Principles of Cost Management, Planning Cost Management, Estimating Costs, controlling costs	Chapter 7 [ Textbook]
9	<b>Mid Term Exams</b>		
10	CLO-3	Project Quality Management, The Importance of Project Quality Management ,Planning Quality Management Performing Quality Assurance, Controlling Quality , Tools and Techniques for Quality Control	Chapter 8 [ Textbook]
11		What is Project Human Resource Management, Keys to Managing and Leading People, Developing the Human Resource Plan, Acquiring the Project Team, developing the Project Team, managing the Project Team  The Importance of Project Communications Management, Keys to Good Communications, Planning Communications Management ,Managing Communications, Controlling Communications	Chapter 9 [ Textbook] Chapter 10 [ Textbook]
12			
13		The Importance of Project Risk Management Planning Risk Management, Identifying Risks, Performing Qualitative Risk Analysis, Performing Quantitative Risk Analysis, controlling risks	Chapter 11 [ Textbook]
14		Planning Procurement Management, Conducting Procurements, Controlling Procurements	Chapter 12 [ Textbook]
15		Project tracking and control, earned value analysis	Chapter 7 [Ref. Book]
16		Project closure (best practices, lessons learnt, project post mortum, releasing the team, releasing the contracts)	Chapter 10 [Ref. Book]